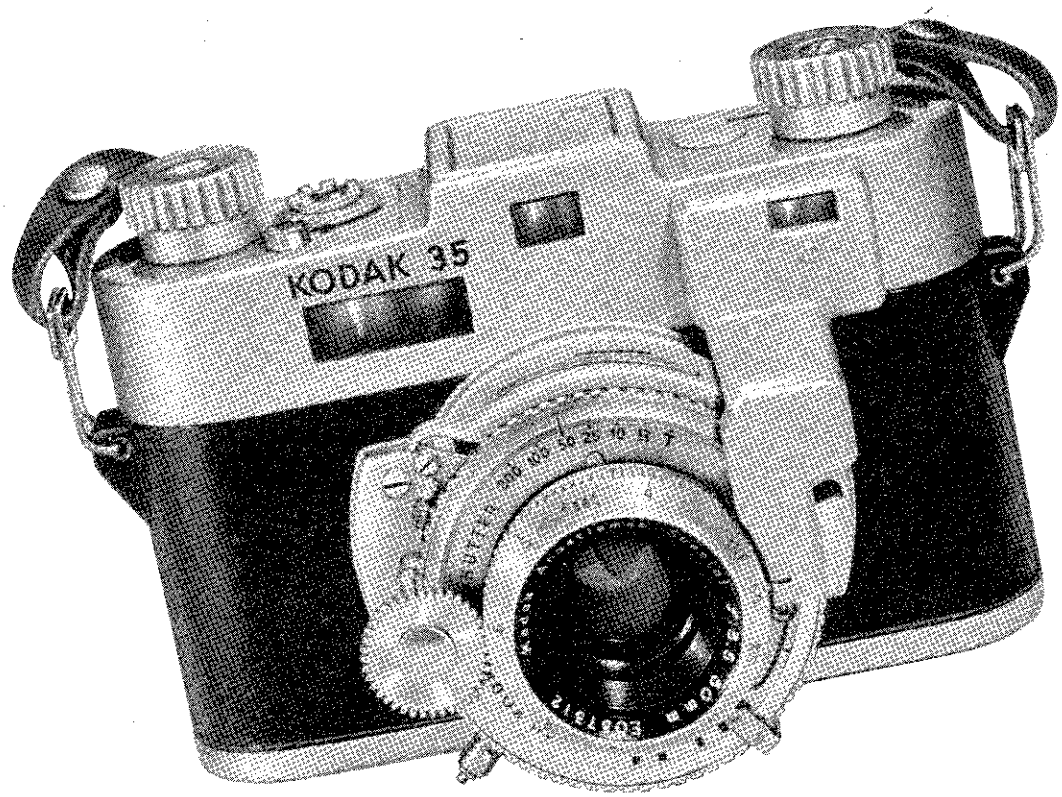
S. M. No. 1-2310

HOW TO SERVICE THE KODAK

WITH RANGE FINDER



EASTMAN KODAK COMPANY • ROCHESTER 4, N.Y.

TABLE OF CONTENTS

DISASSEMBLY — Page No.

Top Cover and Associated Parts . . . 3
Parts on Top of Mechanism Plate . . . 3
Parts Inside Case . . . 4
Parts on Front of Case . . . 5
Top Mechanism Plate . . . 5

REASSEMBLY

Top Mechanism Plate . . . 6
Parts Inside Case . . . 6
Parts on Front of Case . . . 6
Parts on Top of Mechanism Plate . . . 7
Top Cover and Associated Parts . . . 8
Focusing the Lens . . . 8

RANGE FINDER ADJUSTMENT

Focusing . . . 7
Halving Adjustments . . . 7
Field Adjustment . . . 7
Dividing Line Adjustment . . . 8
Riveting Lens and Window Frames . . . 8

CORRECTIVE MAINTENANCE

Trouble, Cause, and Remedy Chart . . . 9

● *The sequence given in the section on disassembly is recommended for complete disassembly of the camera. However, many parts and/or assemblies can be removed without strict regard to this chronological order. For example: To replace the thumb gear bracket assembly, (Figure 8) it would be necessary to remove only the two retaining screws.*

Underlined words in the text indicate nomenclature which appears on illustrations. Such nomenclature, when not followed by a direct figure reference, will be found on the figure indicated in the last preceding figure reference.

Disassembly

TOP COVER AND ASSOCIATED PARTS

Remove the back complete from the camera. Remove the REWIND KNOB SCREW (Figure 1), the film indicator PLATE and the film indicator plate FRICTION SPRING. Remove the REWIND KNOB COMPLETE and the REWIND KNOB SPRING. Remove the key POST.

Remove the COUNTER KNOB SCREW, the counter knob thrust WASHER and the COUNTER KNOB. Remove the WINDING KNOB SCREW.

> WARNING: Do not remove the WINDING KNOB COMPLETE unless necessary. If the knob is removed, the springs and rollers of the key cam CASE ASSEMBLY (Figure 2) may become disassembled and a new assembly will have to be installed.

Remove the 3 top COVER SCREWS. Exerting downward pressure on the winding knob complete, carefully lift off the TOP COVER complete. Remove the top cover CAP complete.

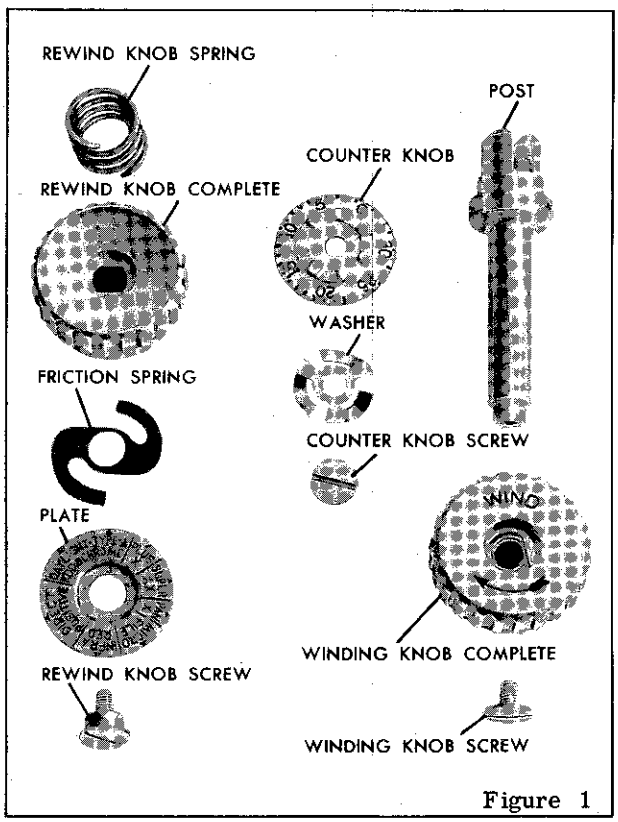


Figure 1

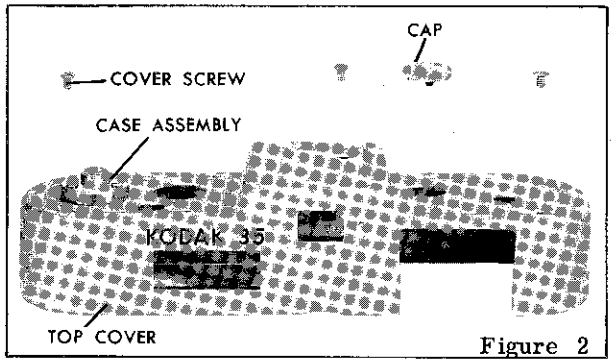


Figure 2

PARTS ON TOP OF MECHANISM PLATE

Remove the left front window MOUNT ASSEMBLY (Figure 3) by removing the retaining screw and washer located in the film supply chamber.

> NOTE: On earlier model cameras, the left front window MOUNT ASSEMBLY is fastened to the camera by two retaining screws which are located directly beneath the extending arm of the mirror bracket assembly. It is necessary to remove the mirror bracket assembly before removing the retaining screws.

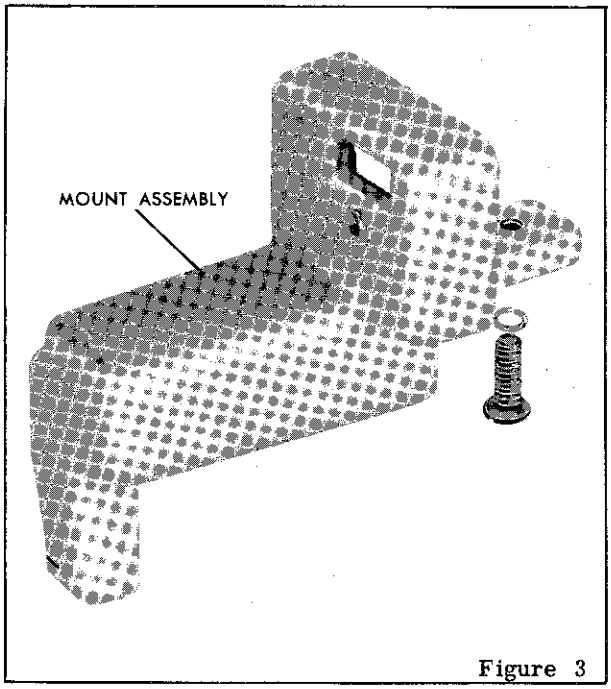


Figure 3

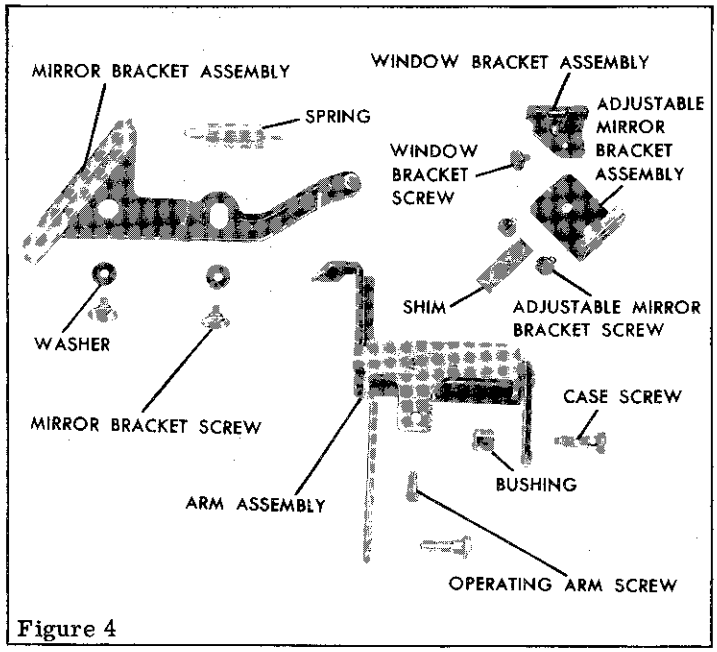


Figure 4

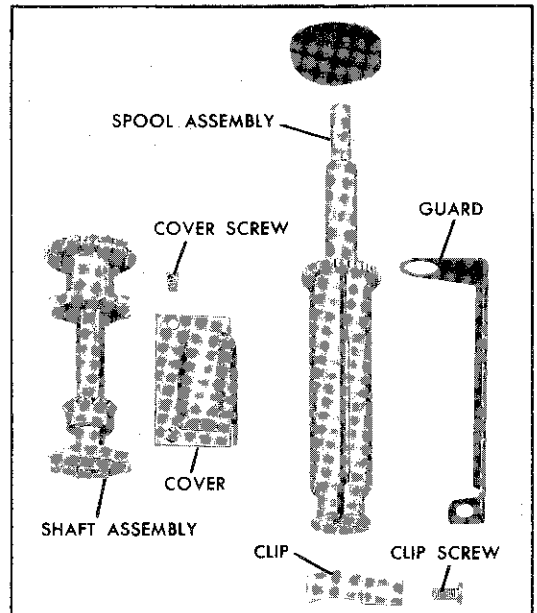


Figure 5

Unhook the mirror bracket SPRING (Figure 4) from the MIRROR BRACKET ASSEMBLY. Remove the two MIRROR BRACKET SCREWS and lift off the mirror bracket assembly. Remove the two mirror bracket WASHERS from the mechanism plate. Unhook the mirror bracket spring from the case post.

Remove the rear WINDOW BRACKET SCREW and lift off the left rear WINDOW BRACKET ASSEMBLY. Remove the two ADJUSTABLE MIRROR BRACKET SCREWS and remove the ADJUSTABLE MIRROR BRACKET ASSEMBLY and SHIM.

PARTS INSIDE CASE

Remove the take-up film spool CLIP SCREW (Figure 5) and lift off the take-up film spool CLIP. Remove the take-up film SPOOL ASSEMBLY together with the take-up film spool light GUARD.

Remove the two sprocket shaft bevel gear COVER SCREWS and lift off the sprocket shaft bevel gear COVER. Lift off the sprocket SHAFT ASSEMBLY. Remove the sprocket shaft bevel GEAR (Figure 6). This part should not be removed except when necessary as the synchronization of the sprocket shaft drive PINION will be disturbed.

Pull out the film release BUTTON and remove the film release PAWL SPRING and the film release PAWL. Remove the four case lock plate SCREWS (Figure 7) and lift off the case lock PLATE.

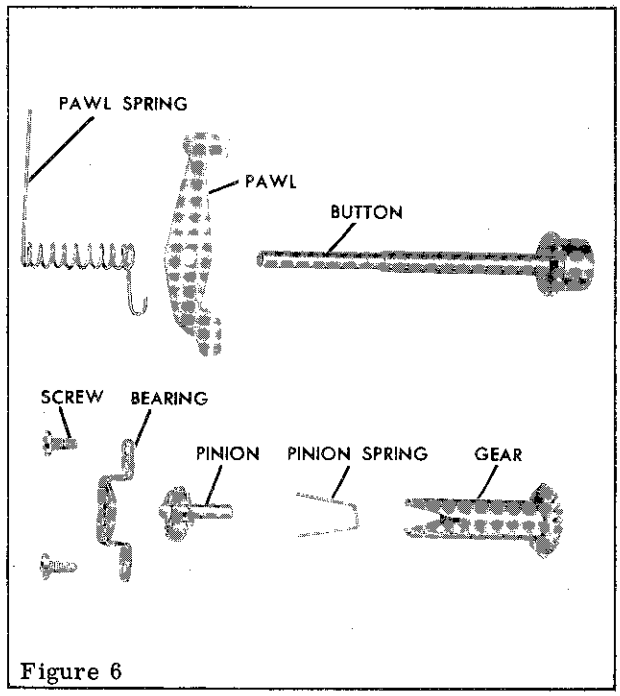


Figure 6

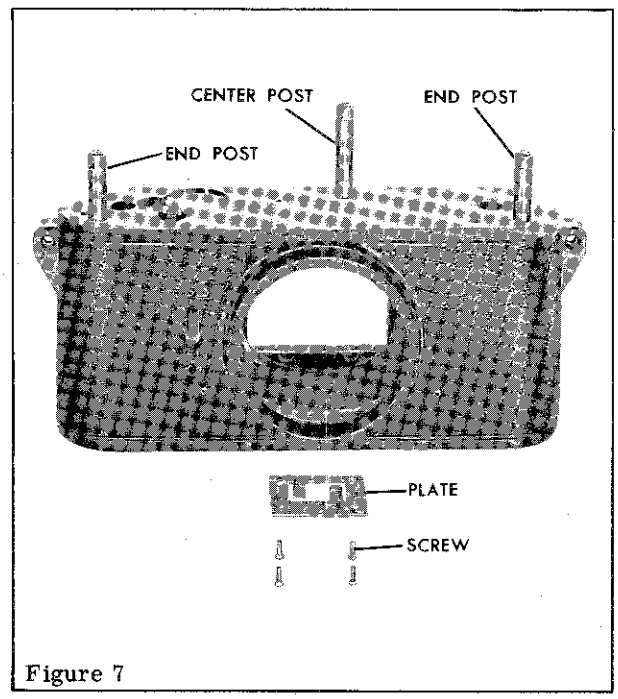


Figure 7

PARTS ON FRONT OF CASE

Remove the TRIGGER GUARD ASSEMBLY (Figure 8) by removing the two retaining screws. Remove the thumb gear BRACKET ASSEMBLY by removing the two thumb gear BRACKET SCREWS. Remove the OPERATING ARM SCREW (Figure 4) and the two CASE SCREWS and lift off the operating ARM ASSEMBLY. Remove the shutter release ring guard BUSHING (Figure 8).

Using tool No. 288 remove the shutter retaining COLLAR and carefully lift off the shutter. Remove the two shutter release RING GUARD SCREWS and lift off the shutter release RING GUARD ASSEMBLY.

NOTE: On previous model cameras, the shutter RELEASE RING GUARD is fastened to the shutter tube with three retaining screws. Remove these screws before attempting to remove the guard.

Remove the three shutter TUBE SCREWS and lift off the shutter TUBE ASSEMBLY, the shutter RELEASE RING COMPLETE, the shutter release ring plunger SPRING, and the shutter release ring PLUNGER.

Remove the two sprocket shaft drive pinion bearing SCREWS (Figure 6) and lift off the sprocket shaft drive pinion BEARING. Lift out the sprocket shaft drive pinion and the sprocket shaft drive PINION SPRING.

TOP MECHANISM PLATE

Unscrew and remove the two END top cover spacing POSTS (Figure 7) and the CENTER top cover spacing POST. Remove the four mechanism plate SCREWS (Figure 9). Remove the key post BUSHING and lift the mechanism PLATE ASSEMBLY off the case. Remove the counter GEAR. Remove the counter PINION by first removing the counter pinion STUD.

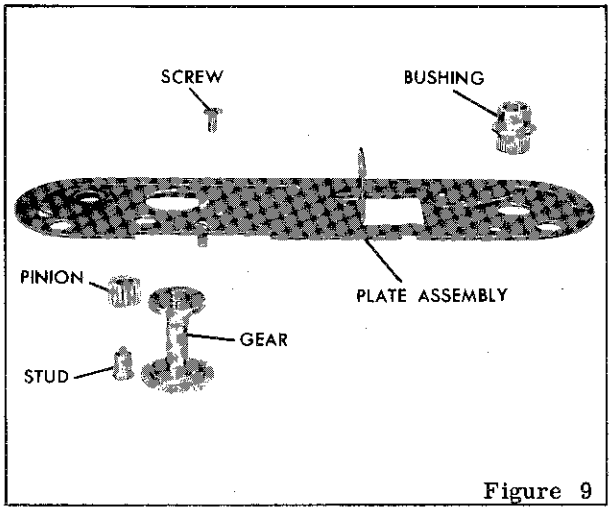


Figure 9

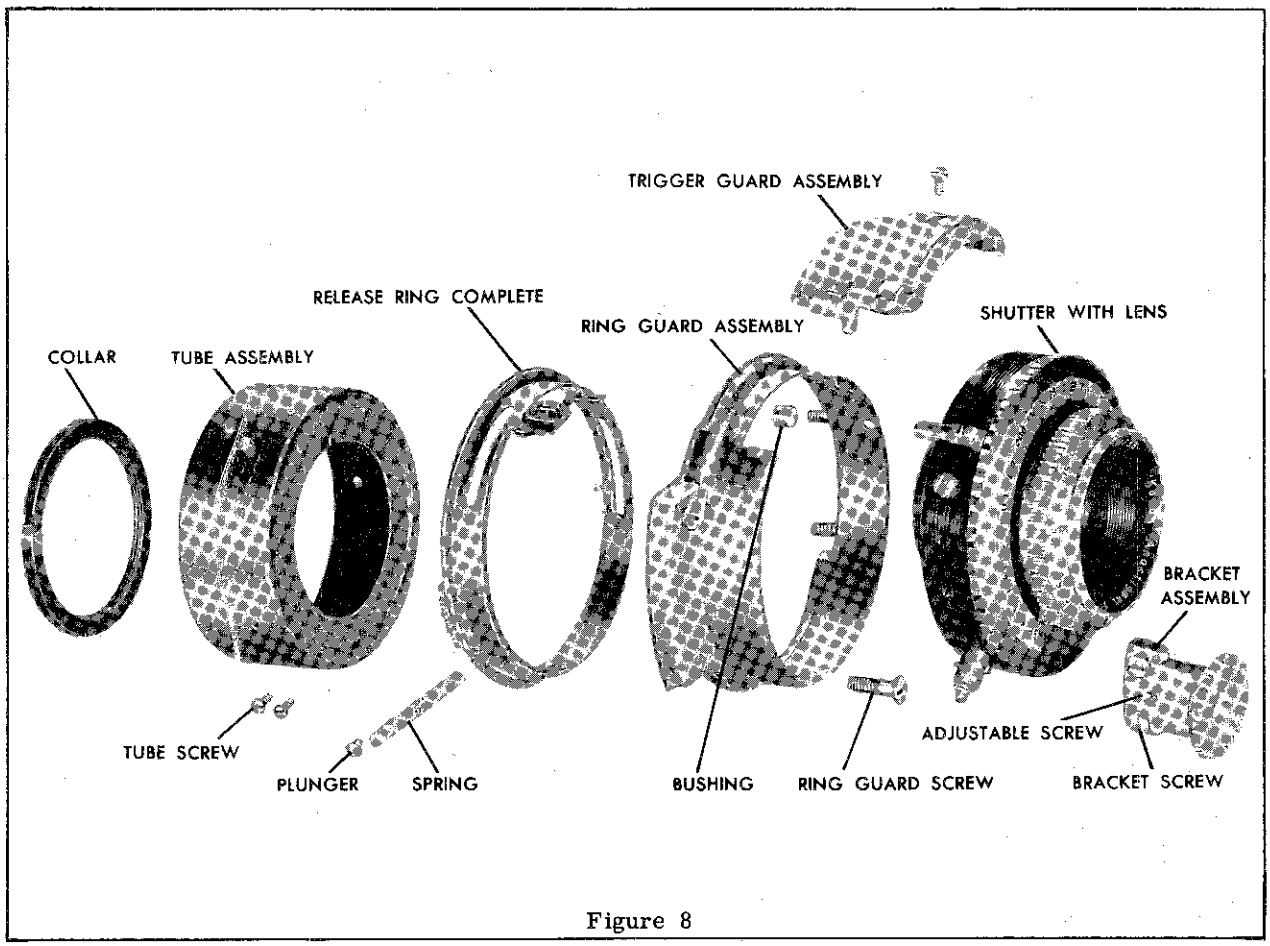


Figure 8

Reassembly

TOP MECHANISM PLATE

Replace the counter PINION (Figure 9) and mesh the counter GEAR with the counter PINION. Place the mechanism PLATE ASSEMBLY in position over the counter gear and on top of the case. Secure the mechanism plate with the four mechanism plate SCREWS. Replace the key post BUSHING. Replace the two END top cover spacing POSTS (Figure 7) and the CENTER top spacing POST.

PARTS INSIDE CASE

Attach the case lock PLATE (Figure 7) to the bottom of the case with the four case lock plate SCREWS.

Insert the film release BUTTON (Figure 6) in the opening in the mechanism plate assembly near the counter gear. Line up the opening in the film release PAWL with the opening for the film release button in the case with the point of the pawl facing up and nearest the opening for the take-up film SPOOL ASSEMBLY (Figure 5). Place the film release PAWL SPRING (Figure 6) under the film release pawl with the hooked end nearest the pawl and with the straight end resting in the groove in the camera case. The film release button is inserted through the pawl, and the spring into the opening in the case. The hooked end of the spring is placed under tension by lifting it up and turning it counterclockwise and placing it under the notched end of the film release pawl nearest the back frame.

NOTE: Add slight tension on the take-up spool CLIP to prevent the film from slipping on the take-up spool.

Replace the take-up film spool assembly, the take-up film spool light GUARD (Figure 5), the take-up film spool CLIP and fasten them with the take-up film spool CLIP SCREW. The clip is placed under the light guard when being attached.

PARTS ON FRONT OF CASE

Place the ends of the sprocket shaft drive PINION SPRING (Figure 6) into the two holes in the sprocket shaft drive PINION. There must be a slight twist in the spring so as to give a ratchet effect. Insert the spring and the pinion into the case. With the curved side toward the end of the case, attach the sprocket shaft drive pinion BEARING with the two bearing SCREWS.

Then turn the sprocket shaft drive pinion so that one tooth shows at the side of the sprocket shaft drive pinion bearing toward the top. Turn the camera case over and replace the sprocket shaft bevel GEAR (Figure 6). Replace the sprocket SHAFT ASSEMBLY (Figure 5) so that the stop pin at the top comes to rest against the short end of the film release pawl. Attach the sprocket shaft bevel gear cover with the two retaining screws.

Place the shutter release ring plunger SPRING (Figure 8) and the shutter release ring PLUNGER in the spring groove on the front of the case with the plunger facing the top of the case.

Place the shutter RELEASE RING COMPLETE around the shutter TUBE ASSEMBLY with the TOP SPRING (Figure 10) resting against the stop stud on the shutter tube. Hold the shutter release ring plunger spring in position and line up the screw hole in the shutter tube assembly with the corresponding screw hole in the case. Push the shutter tube onto the case making sure that the shutter release ring PIN rests against the shutter release ring plunger. Attach the shutter tube assembly to the case with the three shutter tube retaining screws. The shutter tube retaining screw, which fits above the plunger, should be replaced first. This will aid in holding the shutter release plunger spring in position. Make sure that the shutter release ring complete is perfectly free to turn against the shutter release ring spring plunger and the shutter release ring spring. The teeth of the shutter release ring GEAR should engage the teeth of the sprocket shaft drive pinion to at least three-quarters of their depth.

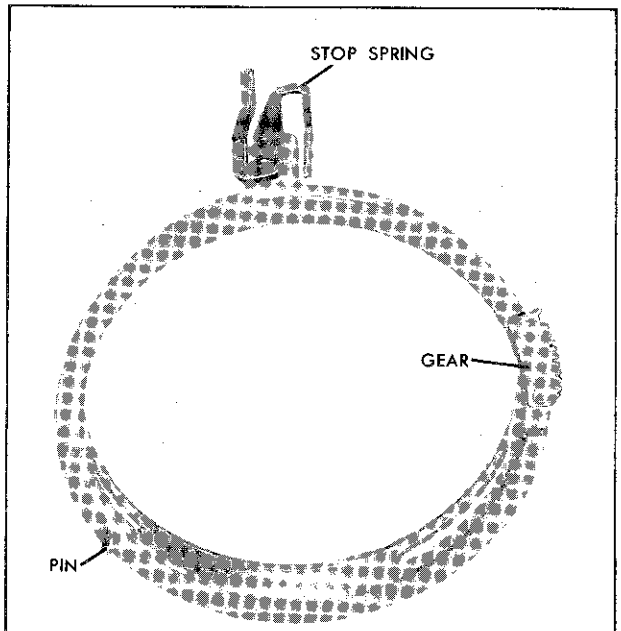


Figure 10

Attach the shutter release RING GUARD ASSEMBLY (Figure 8), horizontal support toward the bottom of the case, to the case with the two shutter release RING GUARD SCREWS. Place the shutter on the shutter tube assembly and fasten it with the shutter retaining COLLAR.

Turn the front lens assembly in as far as it will go, then unscrew the lens until the infinity index mark on the focusing ring is one-quarter turn clockwise from the 1/25-second index mark on the speed and diaphragm index plate. Attach the thumb gear BRACKET ASSEMBLY with the two thumb gear BRACKET SCREWS. Make sure that there is no play between the thumb gear and the focusing gear, by adjusting the thumb gear ADJUSTABLE SCREW.

Place the shutter release ring guard BUSHING under the top operating arm screw hole of the shutter release ring guard assembly. Replace the operating ARM ASSEMBLY (Figure 4) and fasten it with the two CASE SCREWS and the OPERATING ARM SCREW. Attach the TRIGGER GUARD ASSEMBLY (Figure 8) to the shutter release ring guard assembly with the two retaining screws.

PARTS ON TOP OF MECHANISM PLATE

Attach the left front window MOUNT ASSEMBLY (Figure 3) to the case with the retaining washer and screw. Replace the left rear WINDOW BRACKET ASSEMBLY (Figure 4) and secure it with the rear WINDOW BRACKET SCREW. Place the ADJUSTABLE MIRROR BRACKET ASSEMBLY on the mechanism plate and secure it with the two ADJUSTABLE MIRROR BRACKET SCREWS. A shim is placed under the adjustable mirror bracket assembly and shellacked into position before the retaining screws are tightened.

Place the MIRROR BRACKET ASSEMBLY on the top of the case with the two slots in the bracket positioned over the screw holes in the mechanism plate. Place the two mirror bracket WASHERS under the bracket slots and lined up with the screw holes. Fasten the bracket and the two washers with the two MIRROR BRACKET SCREWS. Place one end of the mirror bracket SPRING around the slotted portion of the CENTER top cover spacing POST (Figure 7) and the other end through the small opening in the mirror bracket. There should be very little tension in this spring, just enough to hold the arm of the mirror bracket assembly all the way back. See that the pivot hole in the bracket does not bind. The fit must be snug, but the bracket must pivot freely with no play. If the screws cannot be tightened down without binding the mirror bracket, remove a small amount of material under the heads of the screws with special tool No. 448. After reassembly and adjustment touch up the heads of the screws next to the mirror with dull black lacquer to prevent reflections. The camera should appear as shown in figure 11.

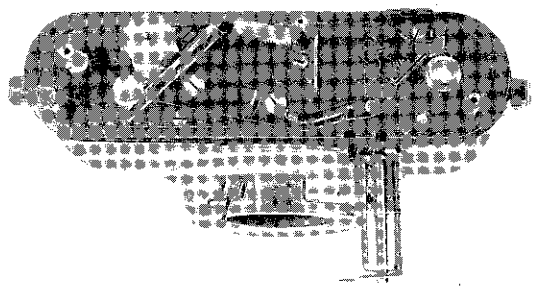


Figure 11

Range Finder Adjustment

FOCUSING

Set the lens mount focusing scale at infinity, then check the range finder against a tall vertical object at least 500 feet away. The upper and lower halves of the image should line up vertically. If they do not, insert a screwdriver in the slot in the base of the adjustable mirror bracket assembly and turn as required to line up the image.

HALVING ADJUSTMENTS

If the dividing line in the range finder does not cut exactly through the center of the image but rather stretches or shortens the image, adjust the tilt of the adjustable mirror by alternately loosening and tightening the two screws in the base of the adjustable mirror bracket assembly until the complete image is correctly proportioned in the upper and lower halves. After adjusting the tilt of the mirror put shellac on and around the screwheads to prevent them from turning.

FIELD ADJUSTMENT

To make the center of the range finder image agree with the center of the view finder, twist very slightly the end of the mirror bracket assembly where the stud projects downward. Check the adjustment by replacing the top cover assembly on the camera and seating it properly; then, sight through both the range finder and the view finder to see if the image center points are correctly aligned.

DIVIDING LINE ADJUSTMENT

Loosen the screw which holds the left rear window mask to the left rear window bracket and raise or lower the mask as required to give a thin dividing line with the upper and lower halves of the image equal.

NOTE: After making the final adjustments in the range finder, put a small amount of shellac on or around the two adjustable mirror bracket retaining screws to prevent their loosening or turning. Replace the cap screw.

RIVETING LENS AND WINDOW FRAMES

If it is necessary to replace any of the lenses or windows inside the top cover assembly or the left front window mount assembly, use special tool No. 199 for riveting the mounts or frames in place. Care should be taken against tightening the rivets too tightly or the lens or window may be chipped.

TOP COVER AND ASSOCIATED PARTS

Hold the WINDING KNOB COMPLETE (Figure 1) carefully in place while replacing the TOP COVER complete (Figure 2). Secure the winding knob with the WINDING KNOB SCREW (Figure 1). Fasten the top cover complete with the three holding screws. Place the counter knob thrust WASHER on the top of the counter gear. Secure the COUNTER KNOB with the COUNTER KNOB SCREW. Insert the key POST in the opening in the case from the inside. Replace the REWIND KNOB SPRING, the REWIND KNOB COMPLETE, the film indicator plate FRICTION SPRING, the film indicator PLATE and secure the assembled parts with the retaining screw. Replace the top cover CAP complete (Figure 2).

FOCUSING THE LENS

If the shutter has been removed from the camera, the lens focus must be checked and readjusted if necessary.

Remove the back cover. Place the camera on a firm support in such a position that the speed and diaphragm index plate with synchronizer scale is exactly 15 feet from some type of wall chart or calendar suitable for checking the focus precisely. Place a piece of ground glass over the back frame and tape it in place. The etched side must be toward the lens and the glass must be narrow enough to fit between the edge guides in the plane occupied by the film during exposure. With the lens aperture set at $f/3.5$, focus carefully on the chart. If the proper distance mark on the focus mount does not coincide with the index mark on the left front window MOUNT ASSEMBLY, the focusing mount must be adjusted to agree with the measured distance.

Loosen the two small screws recessed in the focusing mount. One of these screws is located in the focusing gear and the other in the focusing cam. Hold the front lens mount assembly so that the lens will remain sharply focused on the chart, rotate the focusing mount until the correct distance marking coincides with the index mark on the left front window mount assembly. Tighten the two small screws. being careful not to let the focusing mount shift in position until it is screwed to the front lens mount assembly.

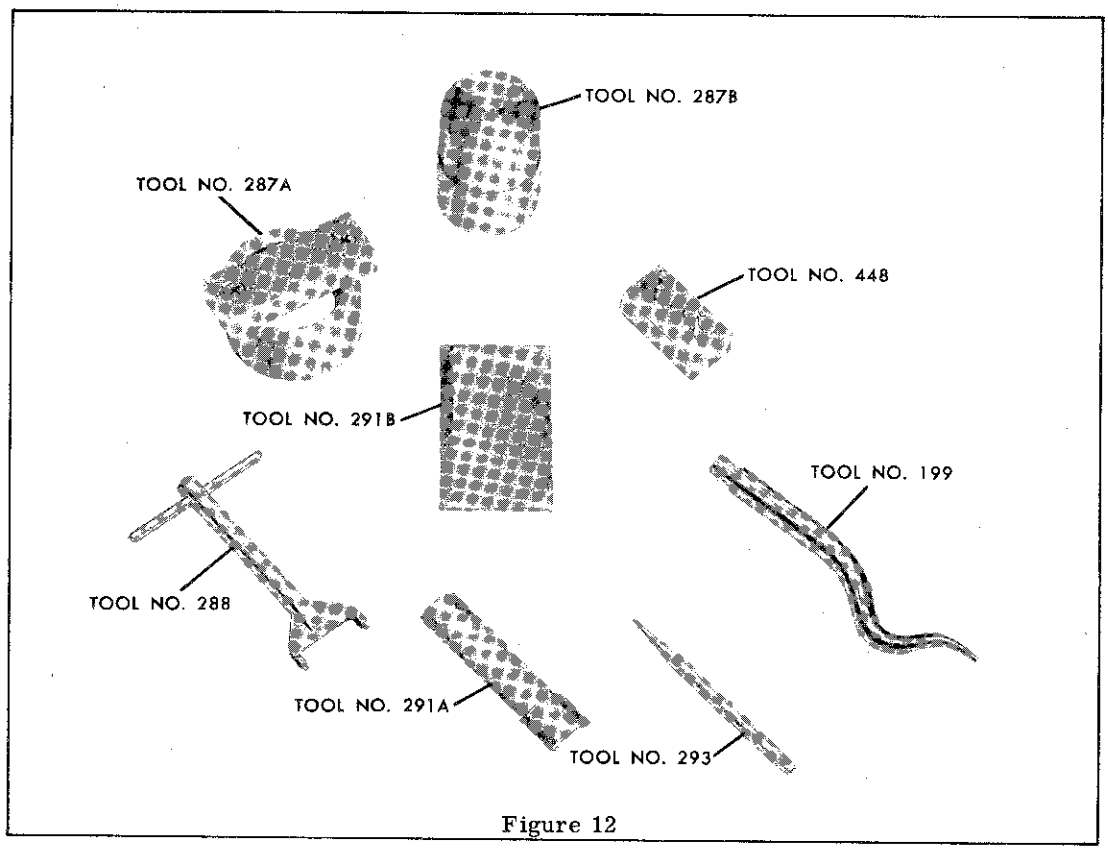


Figure 12

Corrective Maintenance

TROUBLE	CAUSE	REMEDY
Broken film perforation	Sprocket SHAFT ASSEMBLY (Figure 5) binding.	The sprocket shaft bevel gear COVER may be bent and is binding the shaft assembly.
	The sprocket shaft assembly may be rough.	Smooth off the top surface of the sprocket shaft where it comes in contact with the case, using fine emery cloth. If it is necessary smooth the bearing points of the sprocket shaft.
Film is scratched	Burrs around rivets of pressure pad.	Turn the rivets down more securely.
	Burred back frame.	Stone the back frame slightly making sure that all burrs are removed and then burnish thoroughly.
	Pressure plate burred or dirty.	Burnish the pressure plate and clean thoroughly.
Unable to lift up the REWIND KNOB COMPLETE (Figure 1) to rewind film	The film has been wound beyond 20 or 36 exposures.	Remove the camera back in a dark room. Disengage the film magazine, and lift up the winding knob. Replace the magazine and camera back. Rewind the film.
The film does not hold the take-up film SPOOL ASSEMBLY (Figure 5) while winding	The spring in the take-up spool has lost its tension.	Remove the take-up film spool CLIP (Figure 5). Push the spring out towards the bottom of the spool and reform the spring.
Winding is exceptionally hard, shutter does not cock, or shutter does not trip properly	Shutter RELEASE RING COMPLETE is binding.	Use special tools Nos. 287A and B to stretch the shutter release ring complete slightly.
Light leak	The spacing between the camera back and the TOP COVER (Figure 2) is too great.	Using special tools Nos. 291A and B, refit the back.
	Missing screws in the mechanism PLATE ASSEMBLY (Figure 9) and housing.	Replace missing screws.
	Corners of the camera case or the back are chipped.	Replace the camera case or the back complete.
Focusing lens mount binds	Thumb gear BRACKET ASSEMBLY (Figure 8) is not properly adjusted.	Adjust the thumb gear bracket assembly by loosening the two BRACKET SCREWS and adjusting the ADJUSTABLE SCREW. Tighten the large screws.
Negatives out of focus	Range finder out of adjustment.	See page 5.
	Taking lens out of adjustment.	See page 6.

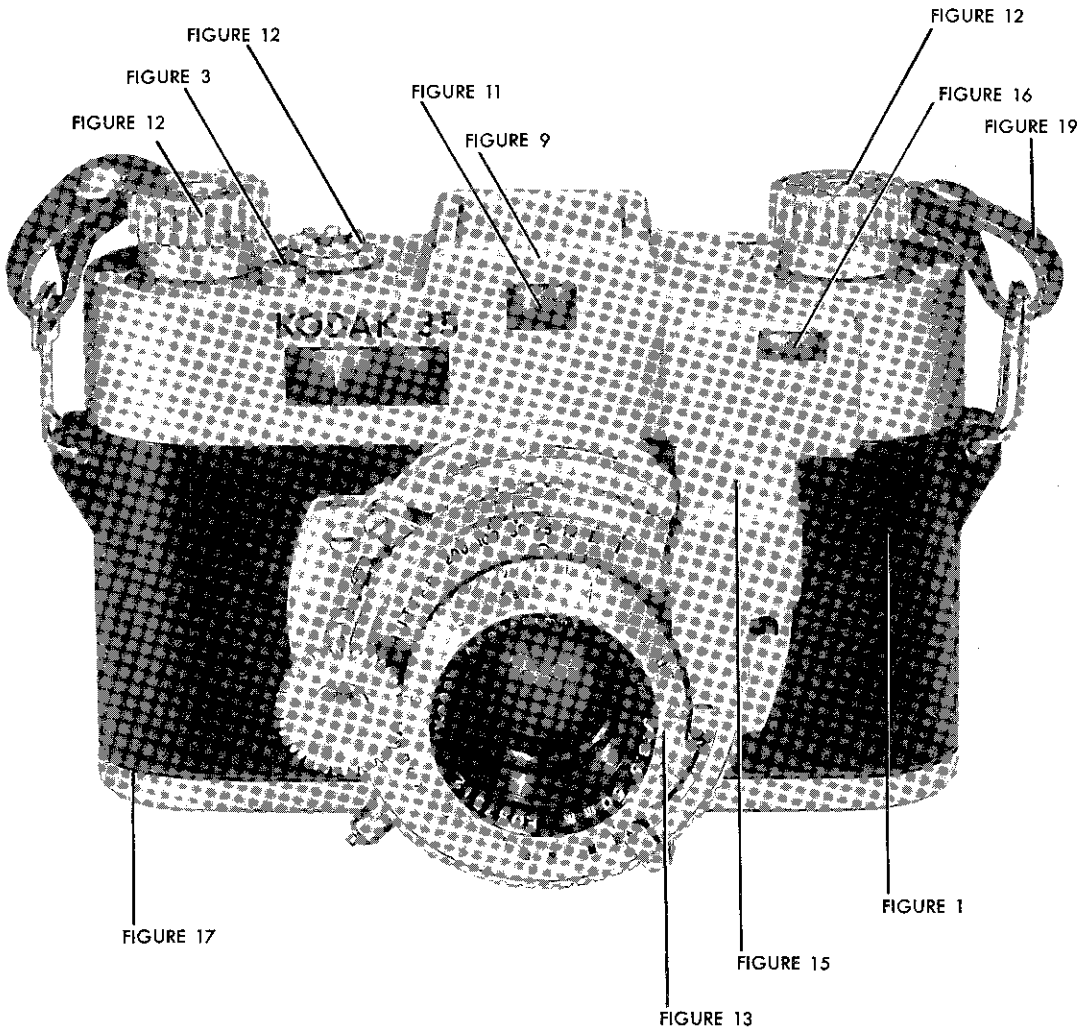
TROUBLE	CAUSE	REMEDY
Shutter does not set when film is wound into position	The STOP SPRING (Figure 10) has lost its tension.	Bend the stop side of the spring slightly towards the stop pin on the shutter tube assembly. Care should be taken during this adjustment as the spring breaks easily. If it should break, remove the two retaining rivets and replace the spring. Use special tool No. 293 for turning the rivets.
	The teeth in the shutter release ring GEAR (Figure 10) due to wear, are not meshing properly with the sprocket shaft drive PINION (Figure 6).	Remove the two retaining rivets and replace the gear. Use special tool No. 293 for turning the rivets.
Latch button turns easily	The lugs on the case lock PLATE (Figure 7) are bent out too far.	Bend the lugs on the case plate in slightly. This will maintain tension between the case assembly and the back complete.

MARCH 1947 PARTS LIST No. 1-2310

KODAK 35

WITH RANGE FINDER

The dagger (†) indicates parts which are seldom replaced and should be ordered only when needed.
Parts List indentations indicate assembly relationship.



EASTMAN KODAK COMPANY, ROCHESTER 4, N.Y.

FIG.	PART NUMBER	1	2	3	4	5	6	PART NAME	No. REQD.
	96782							Camera Complete (Feet)	1
	96781							Case Complete	1
1	106022							Case Assembly	1
3	77244							Button - Film release	1
3	66674							Pawl - Film release	1
3	66675							Spring - Film release pawl	1
3	66680							Gear - Sprocket shaft bevel	1
3	66682							Spring - Sprocket shaft drive pinion	1
3	66681							Pinion - Sprocket shaft drive	1
3	66710							Bearing - Sprocket shaft drive pinion	1
3	98419							Screw - Sprocket shaft drive pinion bearing	2
5	68237							Sprocket Shaft Assembly	1
5	66693							Cover - Sprocket shaft bevel gear	1
5	56100							Screw - Sprocket shaft bevel gear cover	2
5	77275							Take-Up Film Spool Assembly	1
5	87544							Guard - Take-up film spool light	1
5	66679							Clip - Take-up film spool	1
5	60627							Screw - Take-up film spool clip	1
6	77221							Gear - Counter	1
6	77276							Mechanism Plate Assembly	1
6	85853							Pinion - Counter	1
6	66672							Stud - Counter pinion	1
	72245†							Strip - Mechanism plate leak	1
6	87768							Screw - Mechanism plate	4
6	69296							Bushing - Key post	1
5	102873							Washer - Take-up film spool shaft, felt	1
13	66705							Plunger - Shutter release ring	1
13	66707							Spring - Shutter release ring plunger	1
13	68684							Shutter Tube Assembly	1
13	72258							Screw - Shutter tube	1
13,14	69281							Shutter Release Ring Complete	3
14	72564							Spring - Stop	1
14	82335							Rivet - Stop spring	1
14	66703							Gear - Shutter release ring	2
14	99286							Rivet - Shutter release ring gear	1
14	66704†							Pin - Shutter release ring	2
13	77280							Shutter Release Ring Guard Assembly	1
8,13	100111							Bushing - Shutter release ring guard	1
13	98418							Screw - Shutter release ring guard	1
8	77269							Mirror Bracket Assembly	2
	77235†							Mirror	1
8	77257							Washer - Mirror bracket	1
8	77247							Screw - Mirror bracket	2
8	86977							Spring - Mirror bracket	2
8	77274							Adjustable Mirror Bracket Assembly	1
8	77287							Shim - Adjustable mirror bracket	1
8	77291							Screw - Adjustable mirror bracket	1
8	77277							Operating Arm Assembly	2
8	83634							Screw - Operating arm	1
8	98420							Screw - Operating arm	1
15	96780							Front Window Mount Assembly, Left	2
16	77252							Window - Front	1
16	77234							Retainer - Front window	1
16	53873							Rivet - Front window retainer	1
15	38877							Washer - Front window mount screw	1
15	77263							Screw - Front window mount	1
8	77288							Rear Window Bracket Assembly, Left	1
8	77291							Screw - Rear window bracket	1
9	77272							Top Cover Complete	1
11	98232							Key Cam Case Assembly	1
11	53873							Rivet - Key cam case	3
11	77225							Window - Front, right	1
11	77245							Frame - Front window	1

| FIG. | PART NUMBER | 1 | 2 | 3 | 4 | 5 | 6 | PART NAME | No. REQD. |

T.M. REG. U. S. PAT. OFF

FIG.	PART NUMBER	1	2	3	4	5	6	PART NAME	No. REQD.
11	82392							Washer - Front window frame rivet	2
11	98422							Rivet - Front window frame	2
11	77224							Window - Rear, left	1
11	77258							Frame - Rear window	1
11	82392							Washer - Rear window frame rivet	2
11	98422							Rivet - Rear window frame	2
11	77268							Lens - Eyelet, rear	1
11	77270							Mount - Eyelet lens	1
11	82392							Washer - Eyelet lens mount rivet	2
11	98422							Rivet - Eyelet lens mount	2
11	66734							Lens - Negative	1
11	77243							Mount - Negative lens	1
11	82392							Washer - Negative lens mount rivet	2
11	98422							Rivet - Negative lens mount	2
9	67269							Screw - Top cover	3
12	102809							Winding Knob Complete	1
12	98431							Screw - Winding knob	1
12	77220							Post - Key	1
12	101973							Spring - Rewind knob	1
12	102810							Rewind Knob Complete	1
12	88540							Spring - Film indicator plate friction	1
12	88541							Plate - Film indicator	1
12	88543							Screw - Rewind knob	1
12	69298							Washer - Counter knob thrust	1
12	68911							Knob - Counter	1
12	98430							Screw - Counter knob	1
1	66686							Plate - Case lock	1
1	66737							Screw - Case lock plate	4
13	95540							Flash Kodamatic Shutter with Special Kodak Anastigmat f/3.5 Lens (Feet)	1
13	69294							Collar - Shutter retaining	1
13	77273							Thumb Gear Bracket Assembly	1
13	104379							Screw - Thumb gear bracket	2
13	98416							Screw - Thumb gear bracket adjusting	1
13	72255							Trigger Guard Assembly	1
13	98419							Screw - Trigger guard	2
9	94999							Top Cover Cap Complete	1
19	78998							Shoulder Strap Assembly	1
19	77109							Link - Shoulder strap, left	2
19	77108							Link - Shoulder strap, right	2
19	69265							Stud - Shoulder strap end loop	2
17	87545							Back Complete	1
18	72270							Film Pressure Pad Assembly	1
18	29393							Rivet - Film pressure pad	2
18	74004							Film Pressure Pad Plunger Assembly	1
18	74001							Guide - Film pressure pad plunger	1
18	98424							Rivet - Film pressure pad plunger guide	2
18	68356							Bottom Cover Assembly	1
	72245†							Strip - Bottom cover leak light	1
18	33406							Washer - Bottom cover rivet	2
18	98425							Rivet - Bottom cover	2
18	72244							Spacer - Magazine	1
18	66688							Stud - Case lock	1
18	98427							Button - Case lock	1
18	98431							Screw - Case lock button	1
18	96803							Label - Patent	1
	NOTE: For camera and shutter with metric plate omit Part Nos. 96782 and 95540 and add:								
	96783							Camera Complete (Meters)	1
13	96854							Flash Kodamatic Shutter with Special Kodak Anastigmat f/3.5 Lens (Meters)	1

FIG.	PART NUMBER	1	2	3	4	5	6	PART NAME	No. REQD.

PART NUMBER	PARTS LIST PAGE NUMBERS	FIGURE No.	PART NUMBER	PARTS LIST PAGE NUMBERS	FIGURE No.	PART NUMBER	PARTS LIST PAGE NUMBERS	FIGURE No.
29393	3	18	72258	2	13	83634	2	8
33406	3	18	72270	3	18	85853	2	6
38877	2	15	72564	2	14	86977	2	8
53873	2	11,16	74001	3	18	87544	2	5
56100	2	5	74004	3	18	87545	3	17
60627	2	5	77108	3	19	87768	2	6
66672	2	6	77109	3	19	88540	3	12
66674	2	3	77220	3	12	88541	3	12
66675	2	3	77221	2	6	88543	3	12
66679	2	5	77224	3	11	94999	3	9
66680	2	3	77225	2	11	95540	3	13
66681	2	3	77234	2	16	96780	2	15
66682	2	3	77235	2		96781	2	
66686	3	1	77243	3	11	96782	2	
66688	3	18	77244	2	3	96783	3	
66693	2	5	77245	2	11	96803	3	18
66703	2	14	77247	2	8	96854	3	13
66704	2	14	77252	2	16	98232	2	11
66705	2	13	77257	2	8	98416	3	13
66707	2	13	77258	3	11	98418	2	13
66710	2	3	77263	2	15	98419	3	3,13
66734	3	11	77268	3	11	98420	2	8
66737	3	1	77269	2	8	98422	3	11
67269	3	9	77270	3	11	98424	3	18
68237	2	5	77272	2	9	98425	3	18
68356	3	18	77273	3	13	98427	3	18
68684	2	13	77274	2	8	98430	3	12
68911	3	12	77275	2	5	98431	3	12,18
69265	3	19	77276	2	6	99326	2	14
69281	2	13,14	77277	2	8	100111	2	8,13
69294	3	13	77280	2	13	101973	3	12
69296	2	6	77287	2	8	102809	3	12
69298	3	12	77288	2	8	102810	3	12
72244	3	18	77291	2	8	102873	2	5
72245	2,3		78998	3	19	104379	3	13
72255	3	13	82335	2	14	106022	2	1
			82392	3	11			

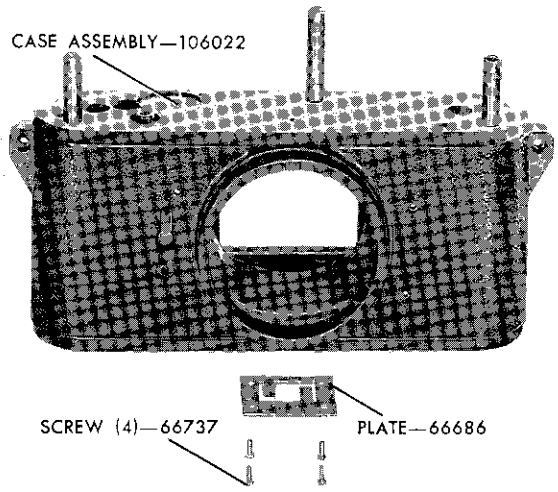


Figure 1

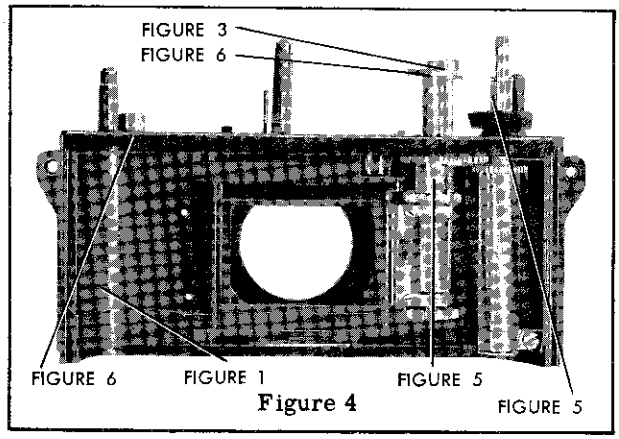


Figure 4

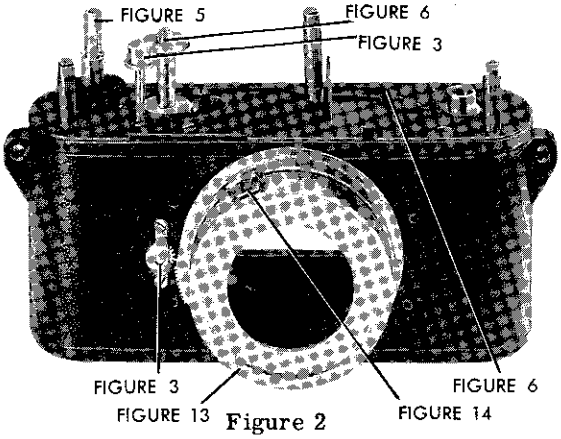


Figure 2

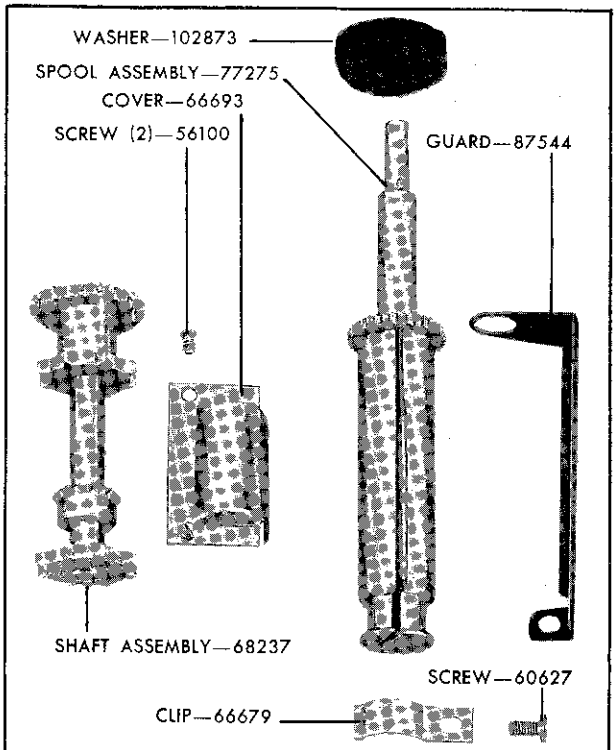


Figure 5

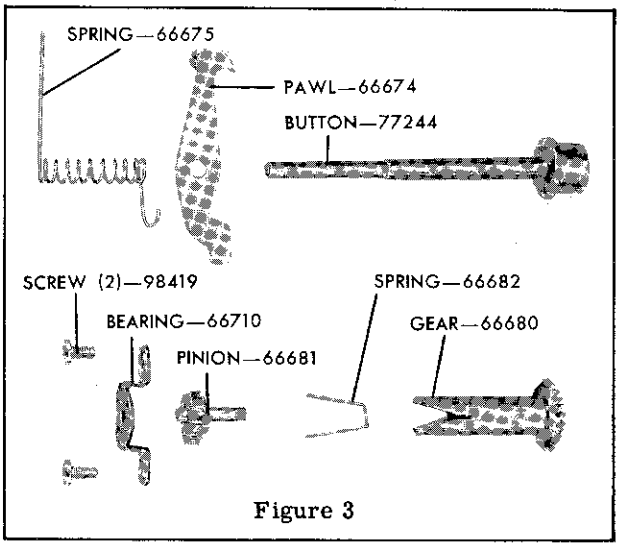


Figure 3

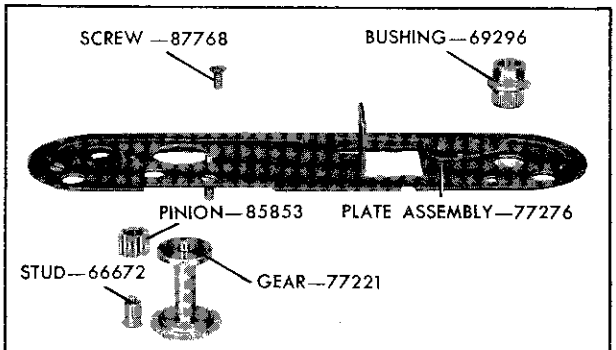


Figure 6

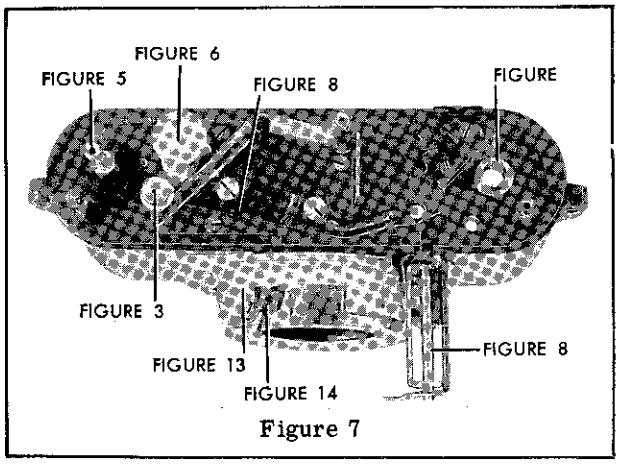


Figure 7

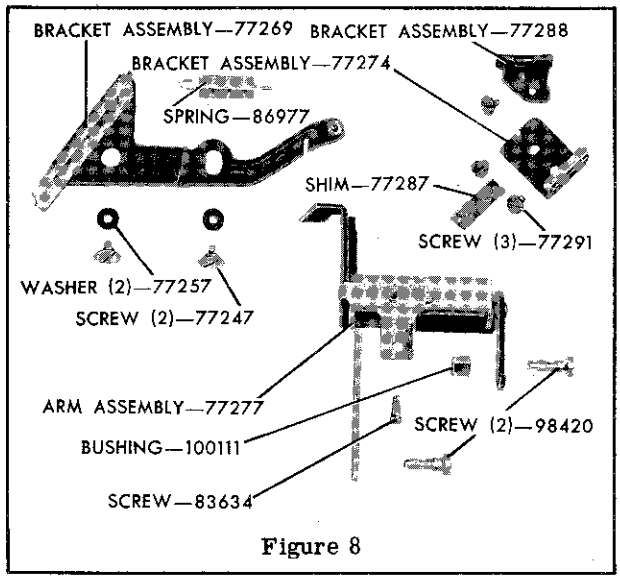


Figure 8

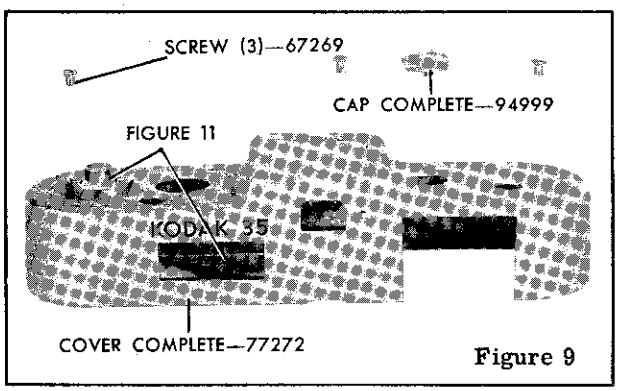


Figure 9

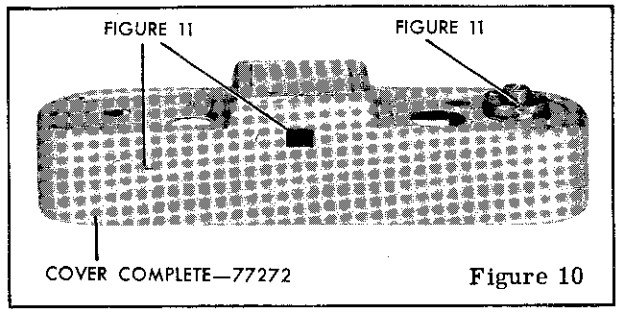


Figure 10

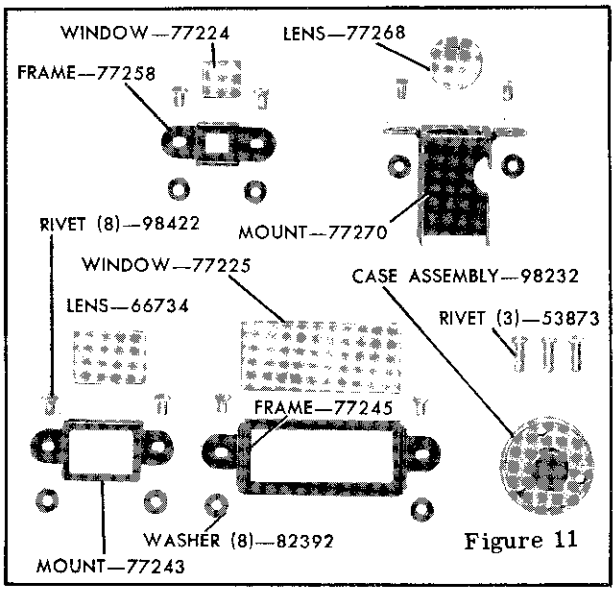


Figure 11

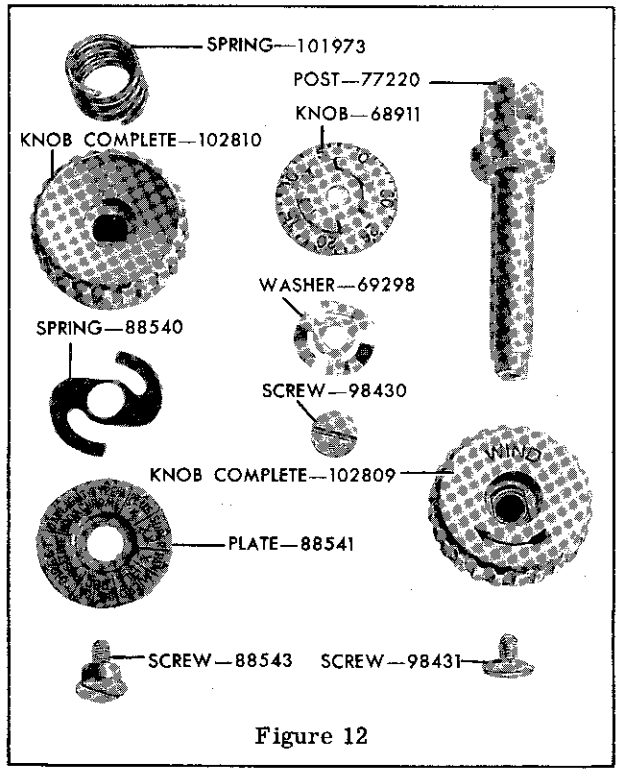
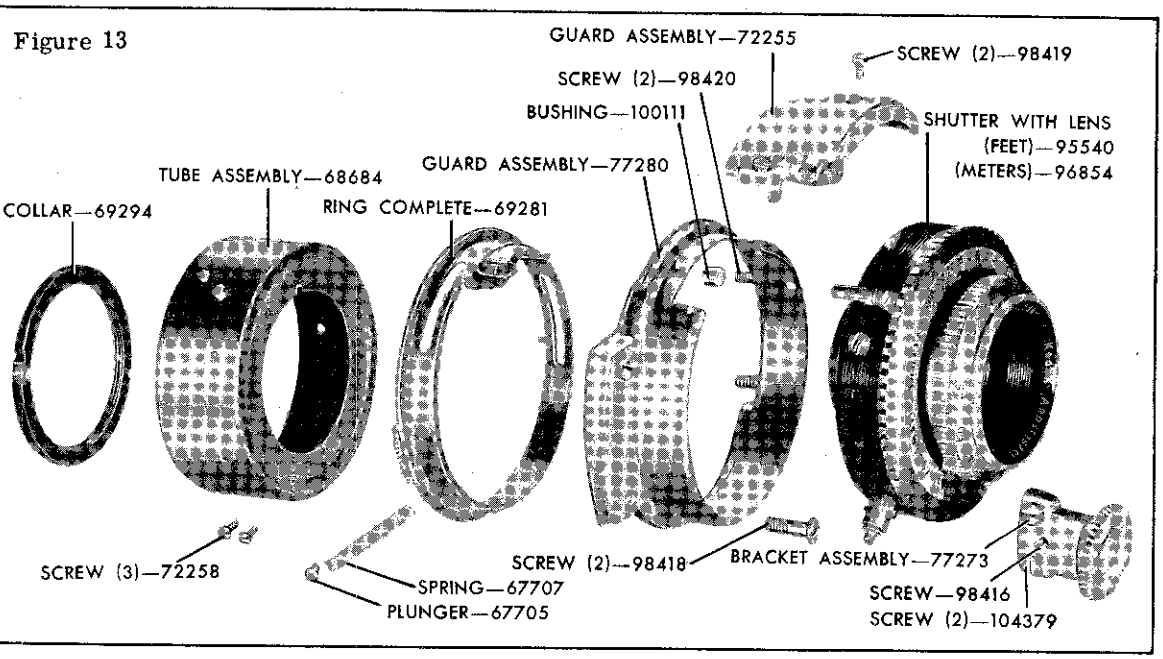


Figure 12

Figure 13



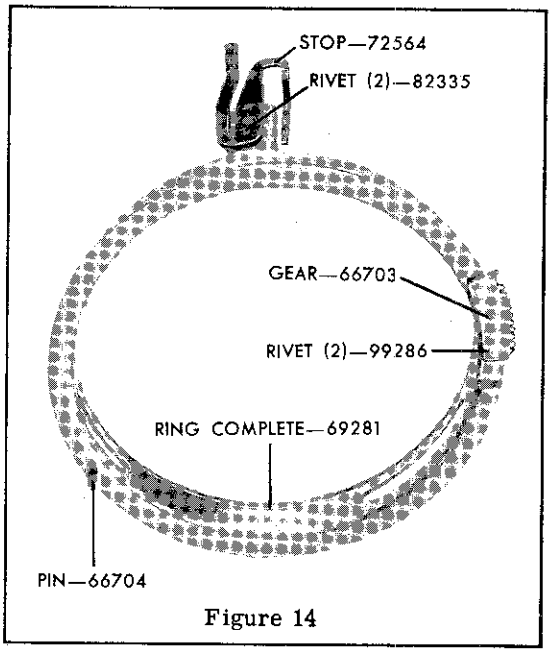


Figure 14

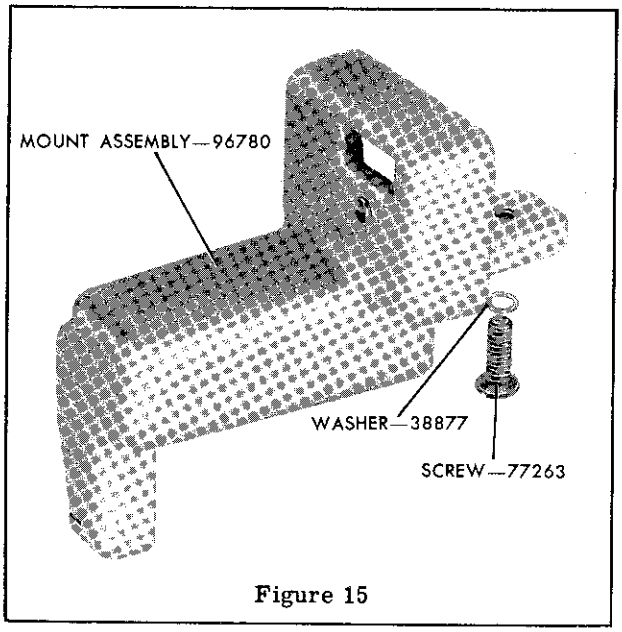


Figure 15

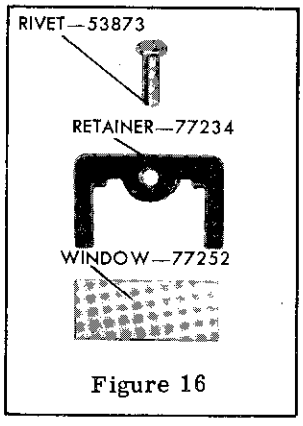


Figure 16

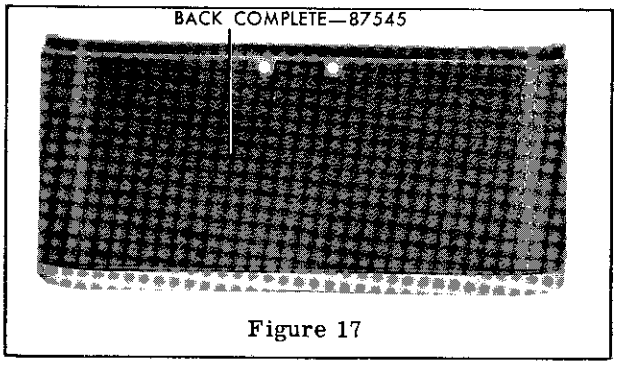


Figure 17

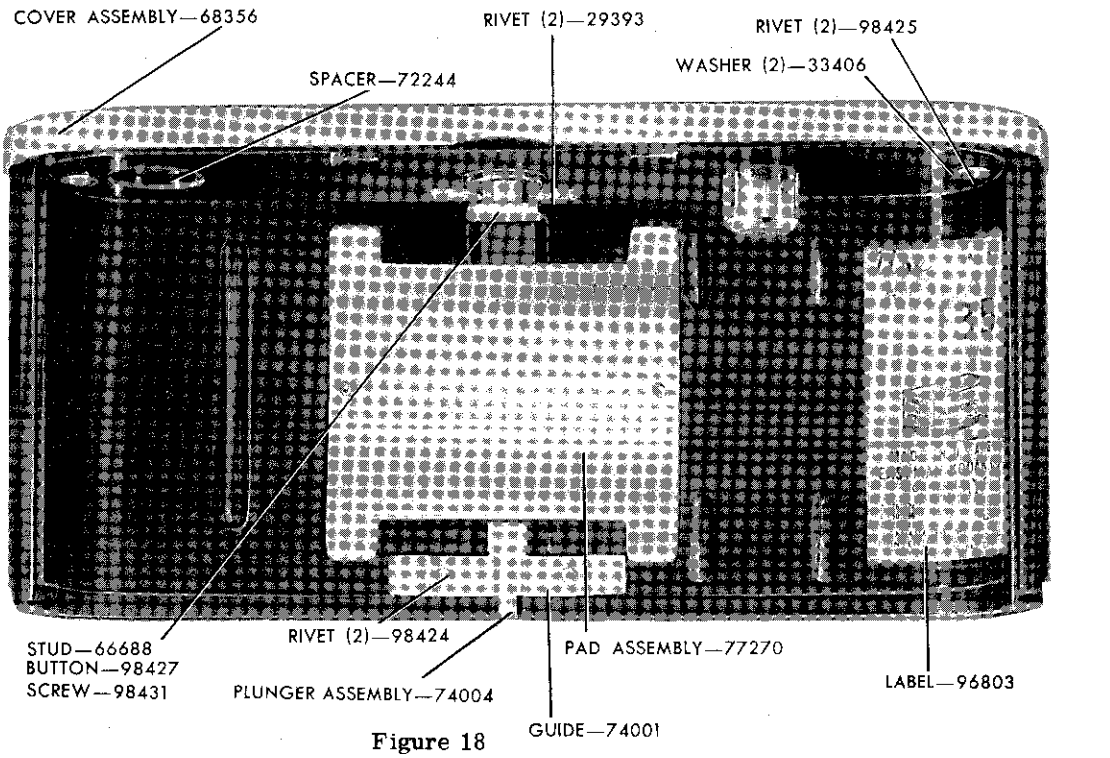


Figure 18

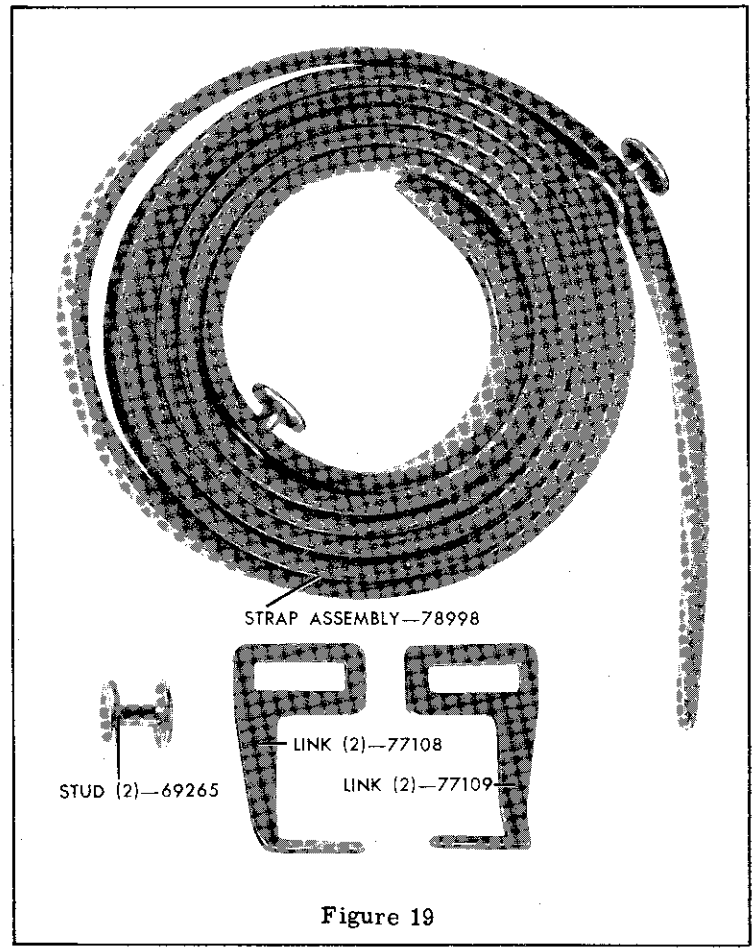


Figure 19